

What RMI's Supporters and Staff Created Together

For a complete look at RMI's history, visit rmi.org.

1977

- Helped (1977 to present) 20 heads of state understand the links between efficiency and security, environment and prosperity
- Laid most of the conceptual and technical foundations for the multi-billion-dollar "negawatt" (electric-efficiency) industry

1982

- Prepared for the Pentagon the definitive unclassified study of domestic energy vulnerability, and how to make energy systems inherently resilient at a profit (*Brittle Power*)
- Designed, constructed, and showed to (now) more than 100,000 visitors one of the world's most efficient and well-integrated buildings

1986

- Created ESource, the world's leading technical information service on electric efficiency. Spun off in 1992, sold to the Financial Times Group in 1999

1978-1983

- Formulated the first internally consistent approach to nuclear nonproliferation, including the first unclassified demonstration of the proliferative risks of reactor-grade plutonium and thorium fuel cycles

1990

- Invented Hypercar®, which could save as much oil as OPEC now sells, makes light vehicles ready for direct-hydrogen fuel cells, unlocks the hydrogen economy, and can profitably deal with up to two-thirds of the climate challenge
- Founded RMI's Green Development Services (later RMI's Built Environment Team), a leader in moving the real-estate industry toward restorative design

1993-2000

- Helped spur the global auto industry to invest ~\$10 billion in ultralight hybrid electric vehicle development — accelerating it by a decade or more — by putting the Hypercar® concept in public domain, so nobody could patent it, and maximizing competition in exploiting it

1998

- Overhauled the U.S. Navy's building design process

2001

- Led redesign exercises for one of the world's largest oil companies on how to save over two-fifths of an efficient refinery's energy use, design a stackless refinery, save half an offshore platform's energy (and recover the rest from waste), and achieve huge energy and cost savings at a giant liquefied-natural-gas plant

1999

- Published Shingo Prize-winner, *Natural Capitalism*, a compelling case for business leaders to create the next industrial revolution

1993-2000

- Predicted grave problems with California's electricity restructuring, then contributed to diagnosis and correction

2002

- Working with the world's leading humanitarian organizations, the Navy, and the National Science Foundation, redesigned refugee/displaced-persons camps from scratch, with emphasis on Afghan needs

2000-2002

- Devised a plan for Oberlin College in Ohio to achieve net zero greenhouse-gas emissions by 2020, at the time the most aggressive goal for any U.S. college or university

2003

- Published a guide for profitable climate protection for business leaders (*The New Business Climate: A Guide to Lower Carbon Emission and Better Business Performance*)
- Helped ~90 computer-industry experts devise an 89 percent more efficient but cheaper design for "server farms"

2004

- Published the first oil solution, *Winning the Oil Endgame: Innovation for Profits, Jobs, and Security*, a coherent strategy for ending oil dependence, led by business for profit
- In 2005, launched WTOE implementation with initial successes in heavy trucks, cars, planes, and military fuel efficiency. By 2009 the *Wall Street Journal* forecast U.S. gasoline demand to keep dropping indefinitely

2006

- RMI Boulder office awarded world's first LEED Platinum rating for Commercial Interior Retrofit

2005

- Provided analysis that led Wal-Mart to require huge energy savings in its buildings and truck fleet

2008

- Convened diverse industry leaders at "Smart Garage" to integrate electrified vehicles
- Spun off Bright Automotive as a for-profit vehicle design and development company, later to unveil the IDEA concept car, affordable plug-in hybrid-electric vehicle
- Relunched 10XE, whose tools will help engineers and architects design for about ten times greater energy and resource efficiency, often at lower capital cost
- Quantified how closing the efficiency gap in 50 states' electricity use would displace 62% of U.S. coal power
- Sped the journey to more efficient heavy trucks by convening a powerful industry consortium

2009

- Launched Project Get Ready, a broad collaboration with communities developing and implementing plug-in electric vehicle plans

2007-2009

- Helped Boeing shift aviation industry toward efficiency-based climate strategy
- Finished internal study reinforcing and extending findings on how to save half of US natural gas at one eighth of its price
- Helped design pathfinding retrofits for Deutsche Bank's Frankfurt headquarters, the Empire State Building, and other iconic structures
- Co-led transformational redesign of a data center, a chip fab, mines, and other industrial facilities for radical energy efficiency at lower cost

